

CLAIMS

1. An X-ray apparatus having a rotary anode X-ray tube comprising an anode target arranged in a vacuum envelope, a rotary body mechanically coupled to the anode target and configured to rotate together with the anode target, and a fixed shaft supporting the rotary body, allowing the rotary body to rotate on a bearing; a stator coil generating a rotating magnetic field for rotating the rotary body of the rotary anode X-ray tube; and a drive-power-supply device controlling a drive power to be supplied to the stator coil,

the X-ray apparatus comprising a memory unit storing a plurality of drive conditions for controlling the drive power to be supplied to the stator coil; and

15 a control unit selecting one of the drive conditions stored in the memory unit and causing the drive-power-supply device to output drive power that matches said one drive condition.

2. The X-ray apparatus according to claim 1, further comprising:

20 detecting means for detecting power or current consumed at the stator coil while the drive power is being applied to the stator coil;

comparing means for determining whether the power or current detected at the detecting means falls within a predetermined range;

25 and

power-supply stopping means for stopping supply of power from

the drive-power-supply device to the stator coil when the power or current falls outside the predetermined range.

3. A method of driving an X-ray apparatus comprising:
 - a first step of selecting one drive condition from a memory unit storing a plurality of drive conditions for drive power to be supplied to a stator coil that generates a rotating magnetic field;
 - a second step of controlling a drive-power-supply device supplying drive power to the stator coil, in accordance with the one drive condition selected and supplying the drive power that matches the one drive condition to the stator coil;
 - a third step of detecting power or current consumed at the stator coil after the second step is performed;
 - a fourth step of determining whether the power or current detected in the third step falls within a predetermined range; and
 - a fifth step of stopping supply of drive power from the drive-power-supply device to the stator coil when it is determined in the fourth step that the power or current consumed falls outside the predetermined range.